

## GILA RIVER BASIN

### 09444500 SAN FRANCISCO RIVER AT CLIFTON, AZ

**LOCATION**--Lat 33°02'58", long 109°17'43", in SW<sub>1/4</sub>SE<sub>1/4</sub> sec. 30, T.4 S., R.30 E., Greenlee County, Hydrologic Unit 15040004, on downstream side of right pier at Railroad Boulevard Bridge (U.S. Highway 191), at Clifton, 9.9 mi upstream from mouth.

**DRAINAGE AREA**--2,766 mi<sup>2</sup>, of which 2 mi<sup>2</sup> is noncontributing.

**PERIOD OF RECORD**--Oct. 1910 to Mar. 1911, July 1911 to June 1912, Sept. 1912, Nov. 1912 to Mar. 1913, May 1913 to July 1918, July 1927 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "San Francisco River at dam above Clifton" in 1911 and under both names in 1912.

**REVISED RECORDS**--WSP 1049: 1911, 1913-15, 1917. WSP 1283: Drainage area. WSP 1313: 1927-30(M), 1932(M), 1934(M). WRD Ariz. 1972: 1917(M).

**GAGE**--Water-stage recorder. Datum of gage is 3,436.16 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Apr. 7, 1959. Apr. 7, 1959, to Mar. 23, 1961, at site 1,140 ft downstream at datum 5.37 ft lower. July 18, 1980 to July 28, 1983, supplementary water-stage recorder 0.4 mi upstream on right bank at same datum and June 15, 1981, to Sept. 30, 1983, crest-stage gages at site. Aug. 4, 1983, to Mar. 1, 1985, supplementary water-stage recorder on right bank at main gage site at same datum, Oct. 1, 1992, at main gage site, at datum 10.00 ft higher.

**REMARKS**--Records fair, except for estimated daily discharges, which are poor. Diversions for mining, municipal use, and for irrigation of about 2,700 acres above station.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, 90,900 ft<sup>3</sup>/s Oct. 2, 1983, gage height, 19.72 ft, from highwater mark, from rating curve extended above 30,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 17.0 ft; minimum daily, 6.1 ft<sup>3</sup>/s June 21, 1971.

**EXTREMES FOR CURRENT YEAR**--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov.13.....	1330	*3,580	*14.87

Minimum daily discharge, 9.5 ft<sup>3</sup>/s July 22.

#### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	27	63	61	70	82	132	126	34	27	28	19
2	29	33	55	61	69	e82	143	121	31	25	27	22
3	29	35	47	61	69	78	314	109	36	23	28	25
4	32	38	53	61	72	88	399	101	34	22	28	28
5	33	40	53	61	71	180	407	93	33	18	41	38
6	26	42	56	61	70	308	384	87	32	15	59	44
7	22	42	58	54	69	247	389	85	31	18	61	42
8	69	44	63	55	68	229	401	71	30	19	51	38
9	107	40	66	56	68	e247	421	78	24	21	57	34
10	80	41	66	60	68	255	444	83	28	21	78	31
11	64	44	65	61	68	255	554	81	31	22	69	31
12	68	51	62	62	67	267	678	79	31	24	57	26
13	52	1410	59	62	67	283	650	78	30	25	105	22
14	46	483	57	63	67	284	593	76	29	25	87	20
15	43	e282	56	74	67	283	511	72	28	24	74	21
16	36	161	53	90	66	e285	447	57	22	30	84	24
17	33	117	60	82	e65	295	397	54	18	26	102	26
18	37	89	63	75	65	283	365	62	25	23	155	29
19	38	76	55	72	64	272	339	60	28	19	101	34
20	37	73	56	72	56	265	311	57	27	17	84	39
21	33	69	58	70	58	257	281	52	27	12	60	42
22	32	64	62	69	63	262	243	51	27	9.5	52	40
23	31	55	63	68	67	271	217	50	28	12	45	31
24	31	60	63	69	70	266	195	48	29	22	40	27
25	30	57	64	72	69	268	179	46	31	36	36	37
26	27	53	64	74	68	256	163	39	29	71	32	210
27	29	58	64	73	67	239	150	42	23	62	28	126
28	32	63	62	71	e72	215	135	49	28	83	29	79
29	28	64	62	71	e83	189	135	47	30	54	29	62
30	23	66	63	70	---	169	129	45	30	41	27	58
31	22	---	62	70	---	151	---	42	---	32	24	---
TOTAL	1236	3777	1853	2081	1963	7111	10106	2141	864	878.5	1778	1305
MEAN	39.9	126	59.8	67.1	67.7	229	337	69.1	28.8	28.3	57.4	43.5
MAX	107	1410	66	90	83	308	678	126	36	83	155	210
MIN	22	27	47	54	56	78	129	39	18	9.5	24	19
AC-FT	2450	7490	3680	4130	3890	14100	20050	4250	1710	1740	3530	2590
CFSM	0.01	0.05	0.02	0.02	0.02	0.08	0.12	0.02	0.01	0.01	0.02	0.02
IN.	0.02	0.05	0.02	0.03	0.03	0.10	0.14	0.03	0.01	0.01	0.02	0.02

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2004, BY WATER YEAR (WY)

MEAN	226	132	245	289	345	437	323	158	55.4	97.9	194	151
MAX	4285	1450	2445	4204	2429	2136	2252	1244	310	657	1360	816
(WY)	1984	1979	1979	1993	1993	1915	1915	1973	1992	1915	1967	1975
MIN	23.3	28.2	33.5	37.0	38.8	43.9	36.3	23.7	11.0	20.6	33.4	21.5
(WY)	1954	1957	1954	1954	1951	1955	1956	1956	2003	2003	1956	1956

#### SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1914 - 2004

ANNUAL TOTAL	30372	35093.5										
ANNUAL MEAN	83.2	95.9										
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	1410	Nov 13	1410	Nov 13								
LOWEST DAILY MEAN	12	Jul 10	9.5	Jul 22								
ANNUAL SEVEN-DAY MINIMUM	15	Jul 6	16	Jul 18								
ANNUAL RUNOFF (AC-FT)	60240		69610									
ANNUAL RUNOFF (CFSM)	0.030		0.035									
ANNUAL RUNOFF (INCHES)	0.41		0.47									
10 PERCENT EXCEEDS	199		258									
50 PERCENT EXCEEDS	59		61									
90 PERCENT EXCEEDS	23		25									